

FIG. 1

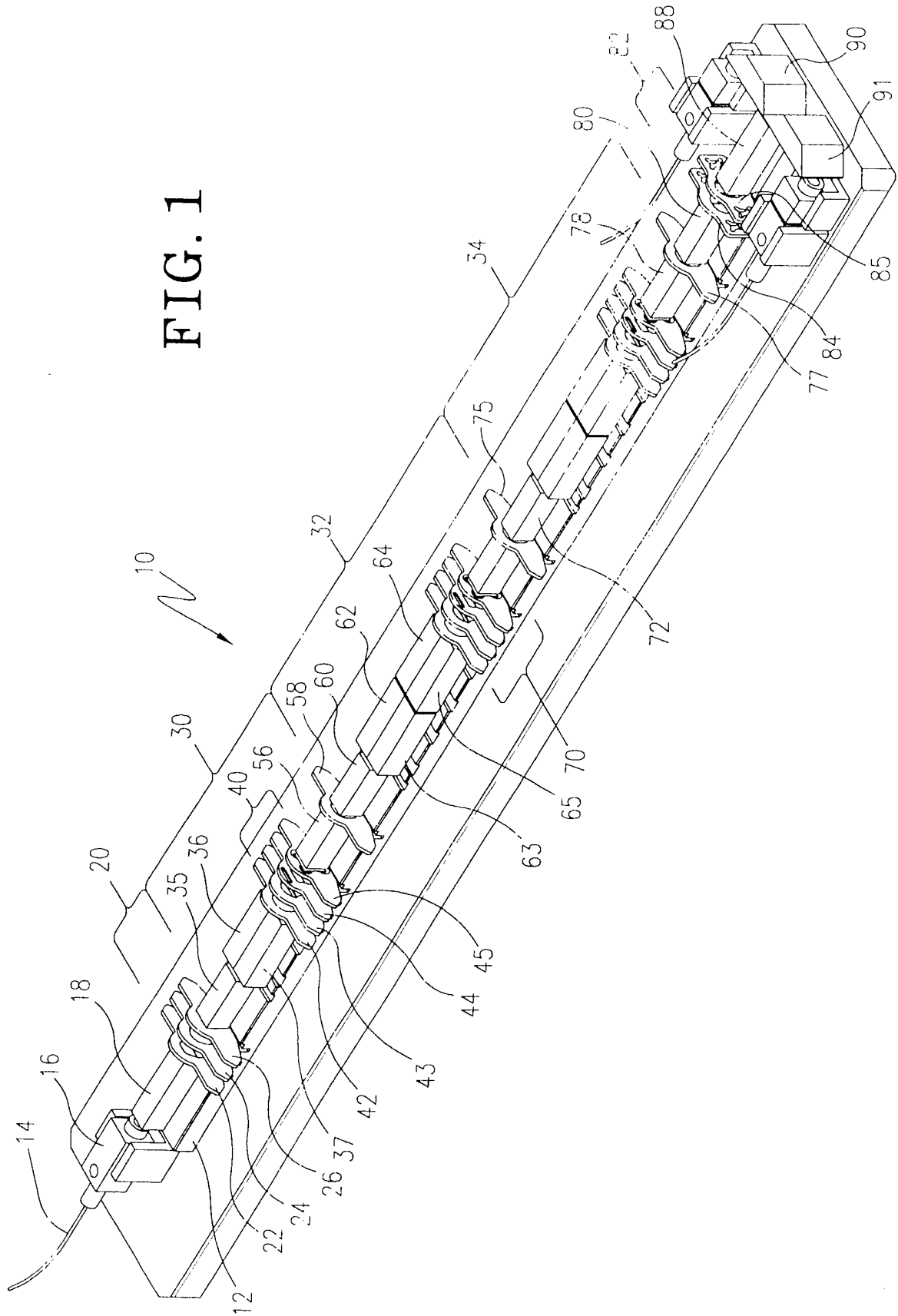


FIG. 2

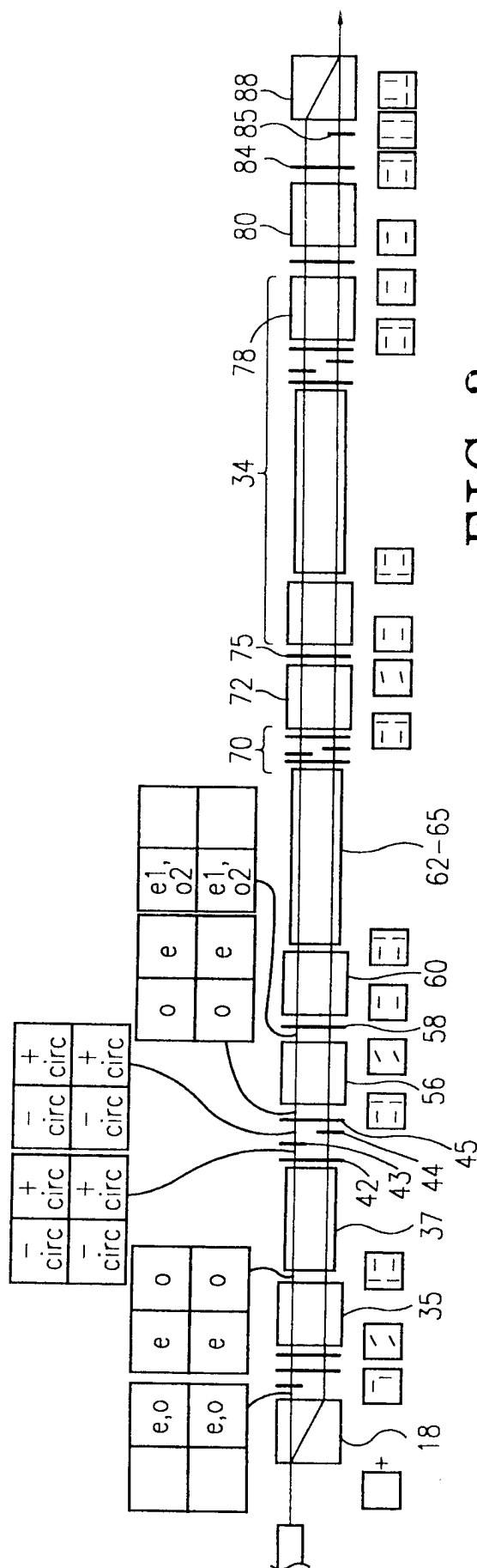
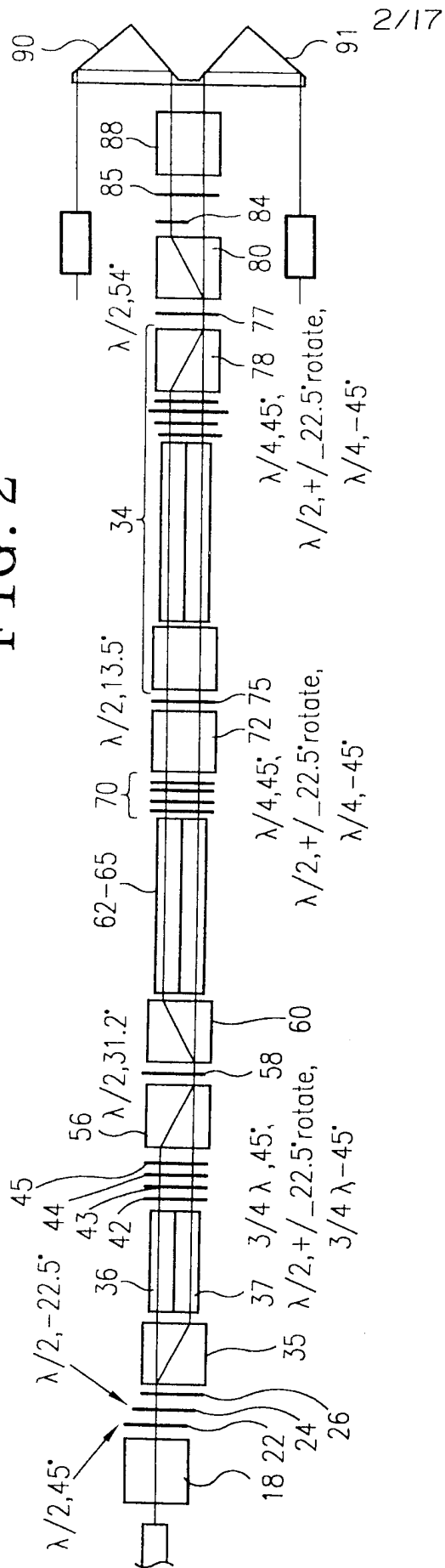


FIG. 4

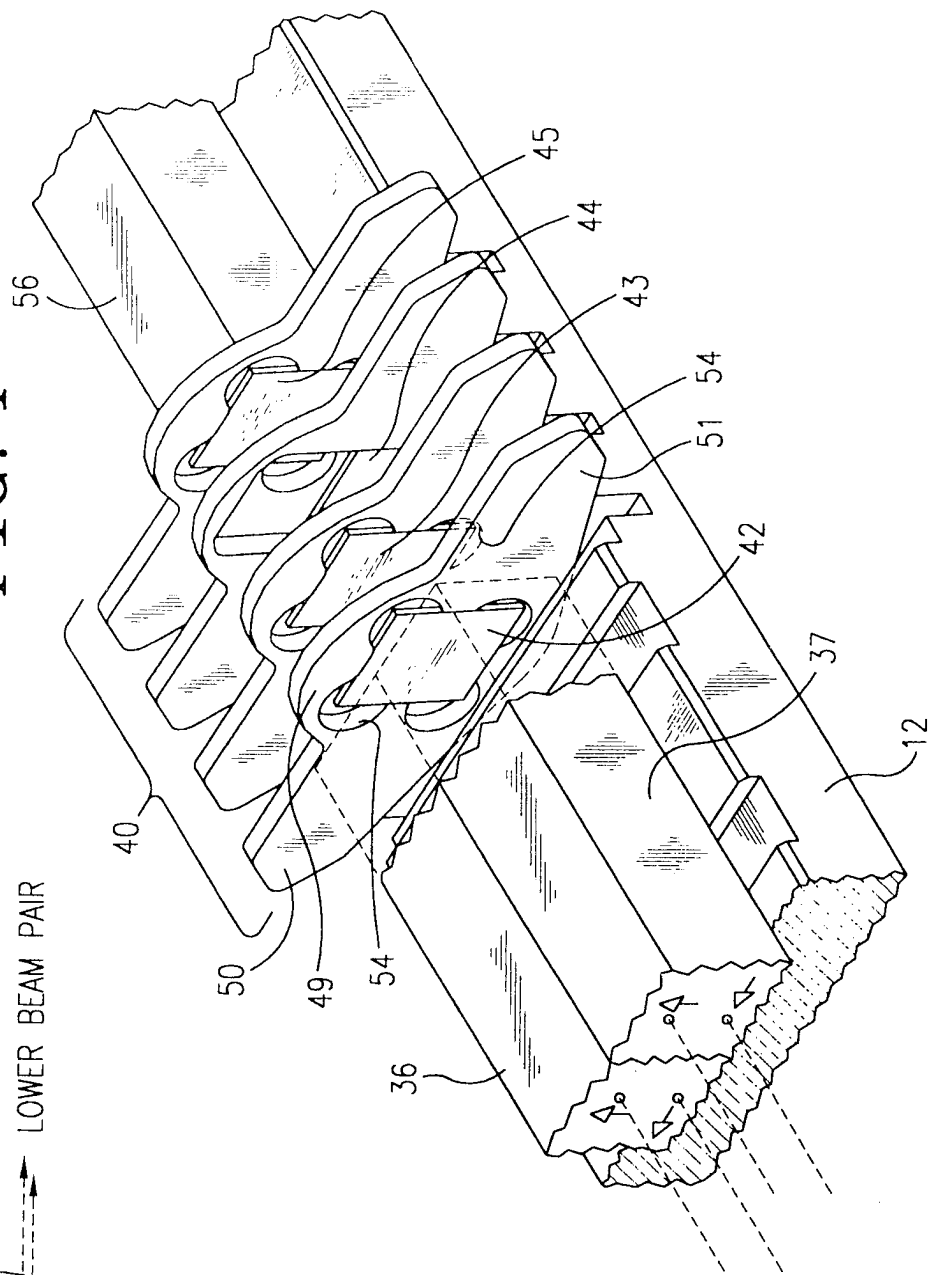


FIG. 5

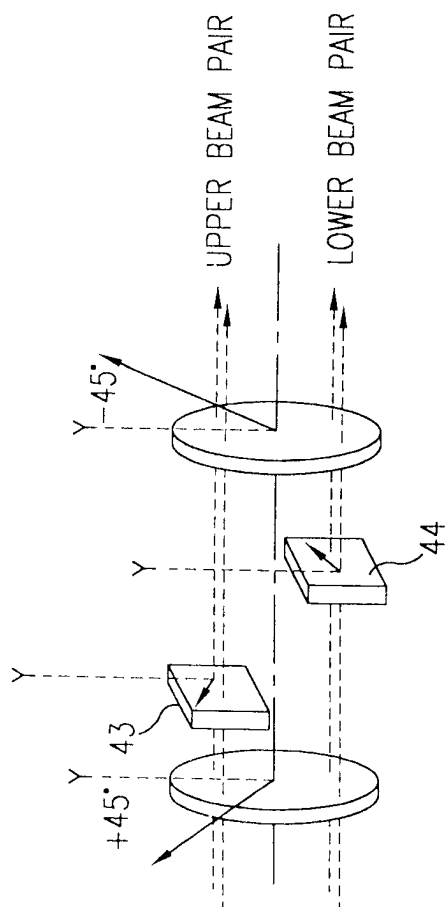
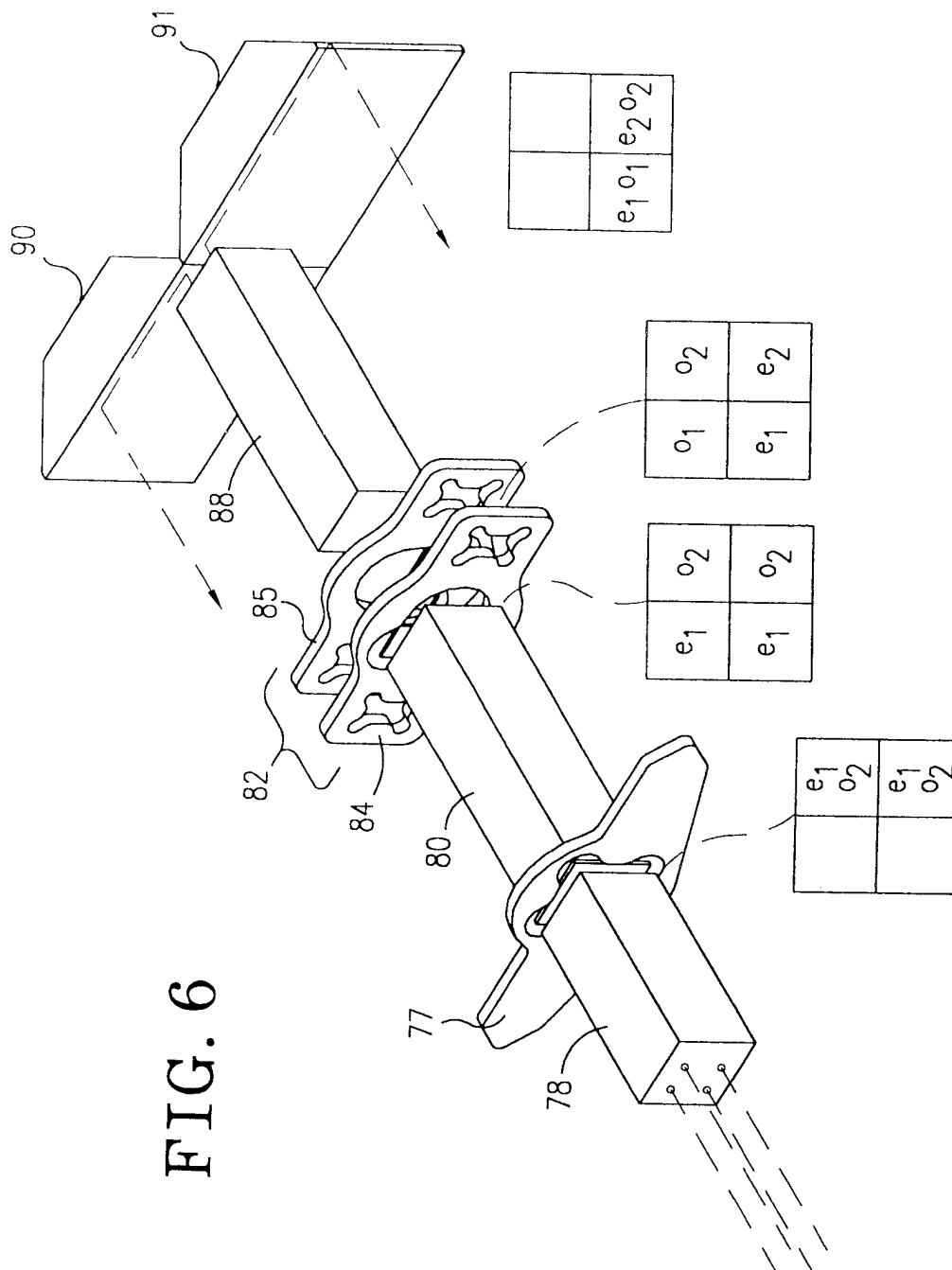
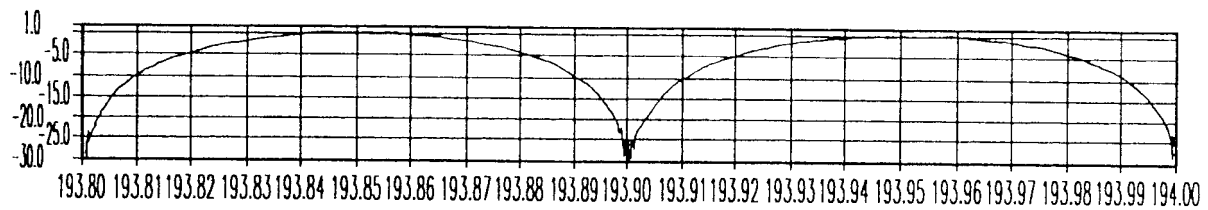


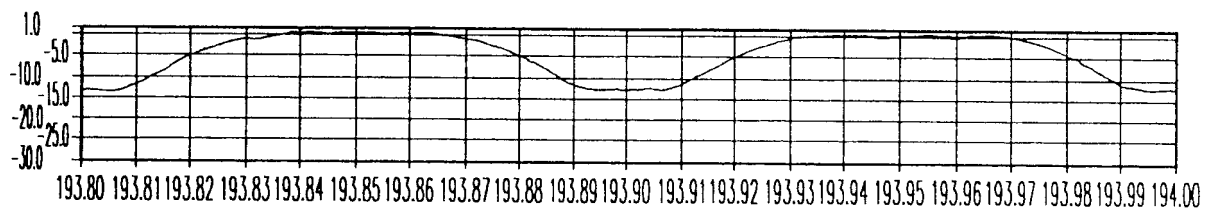
FIG. 6



stage1:channel separation



stage2:passband flattening



stage3:crosstalk reduction

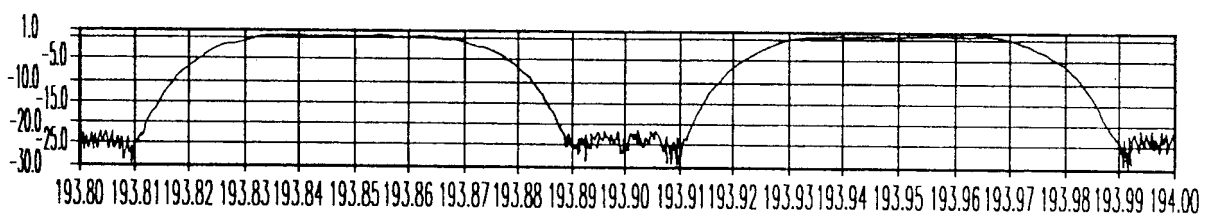


FIG. 7

Effect of multiple stages on interleaver transmission characteristics

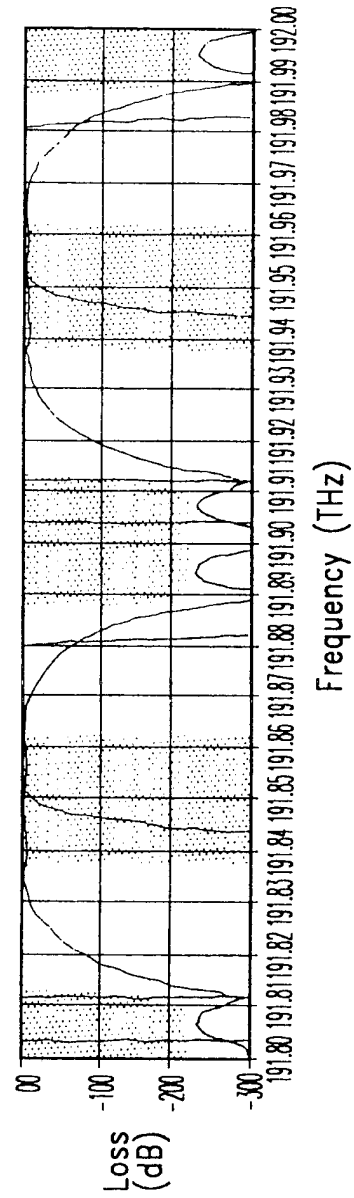
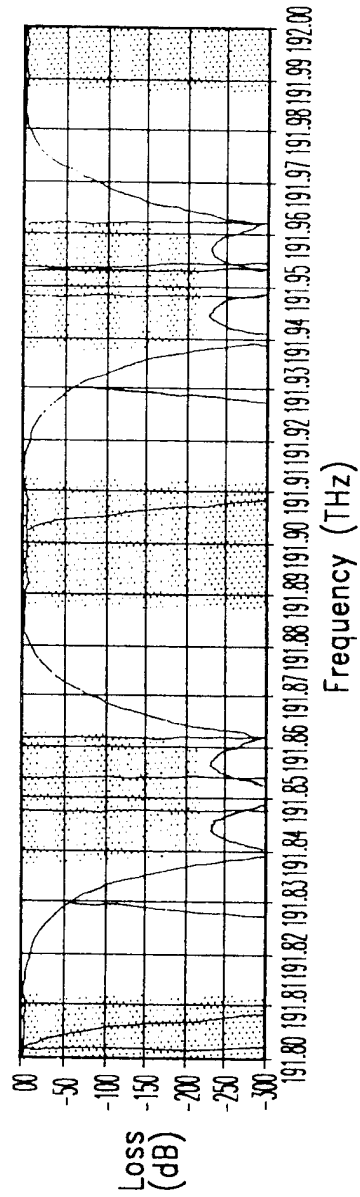


FIG. 8 Optical response of a three stage 50 GHz interleaver

FIG. 9

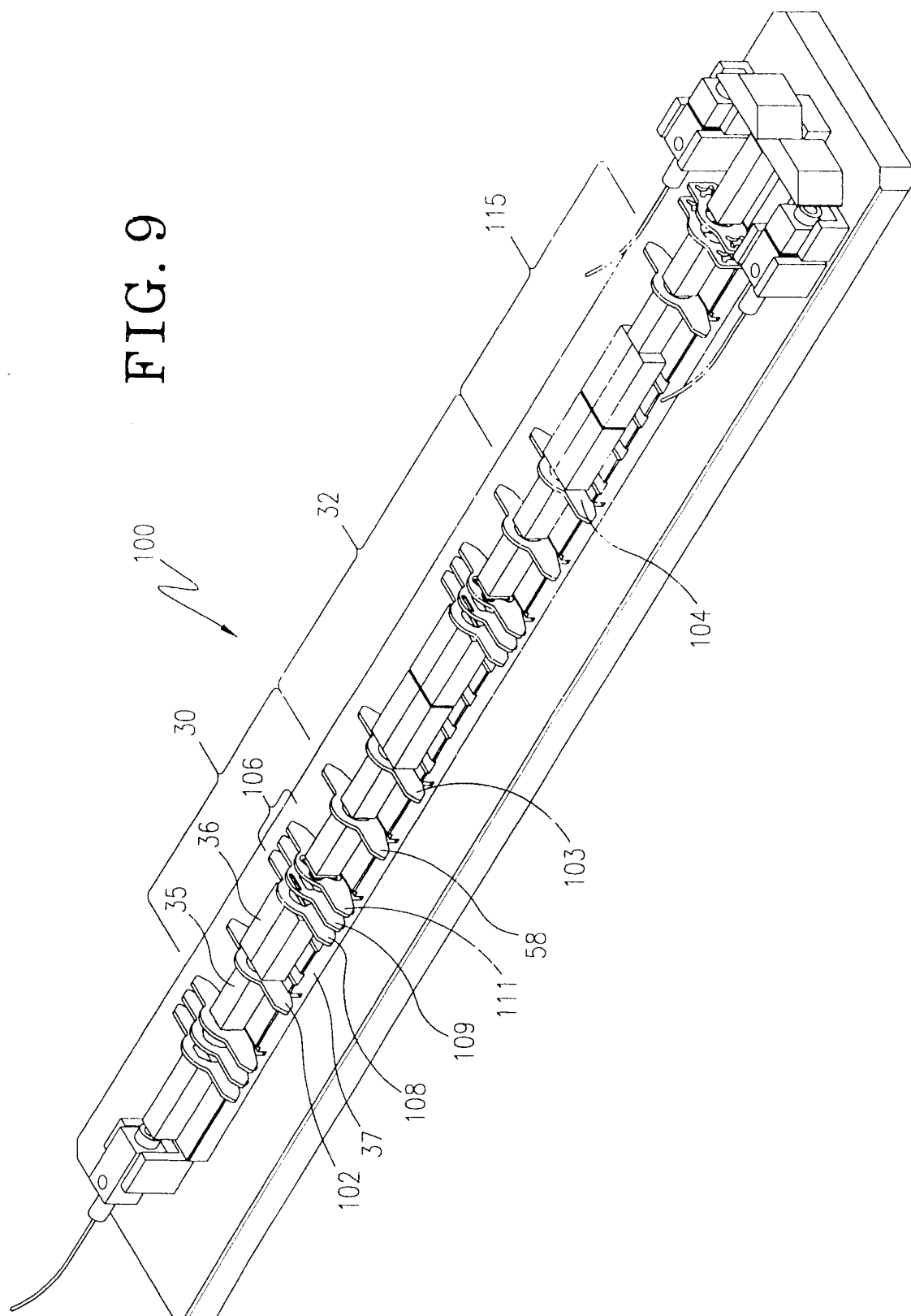
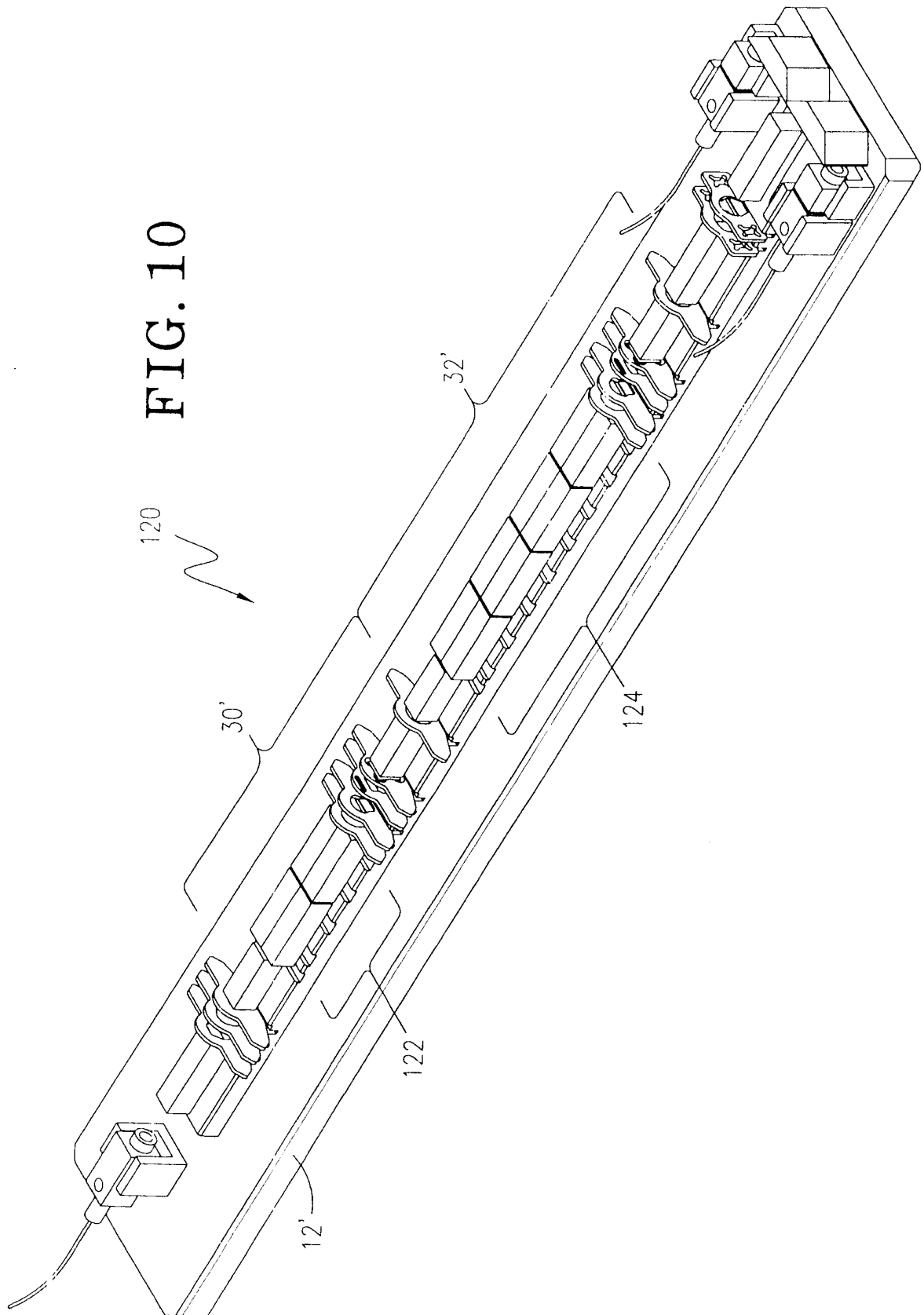
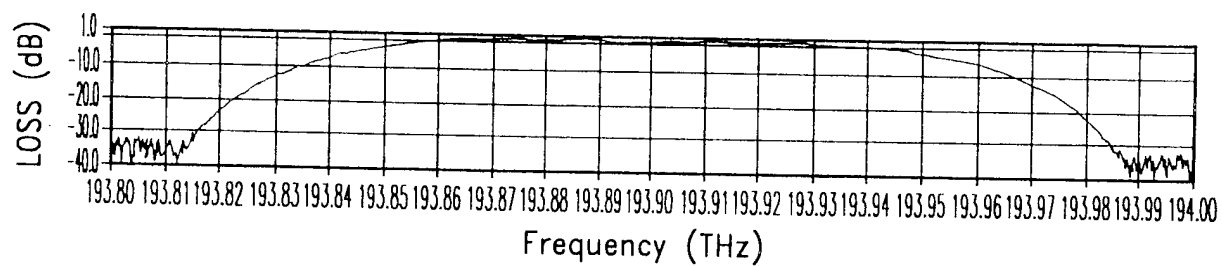


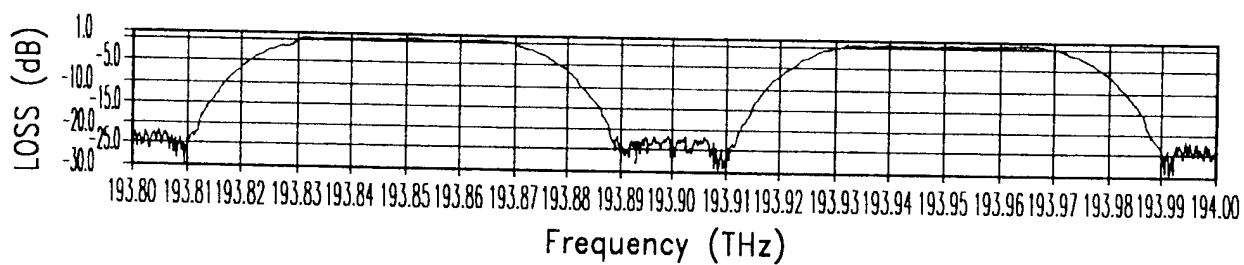
FIG. 10



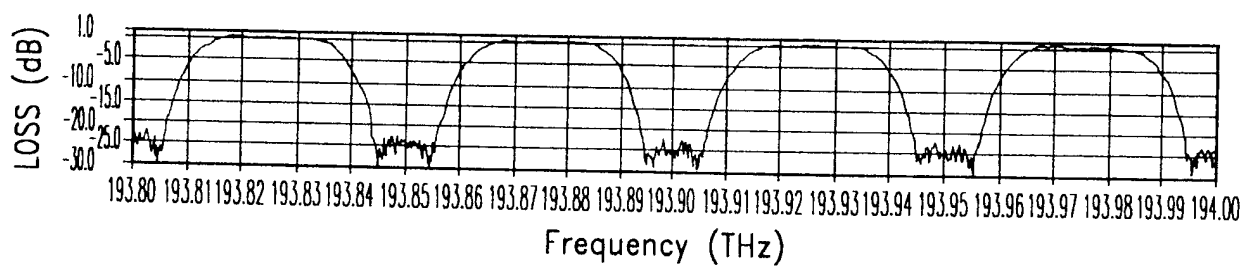
100GHz



50GHz



25GHz

**FIG. 11**

Comparison of 100, 50, 25 GHz interleaver responses (one output only)

FIG. 12

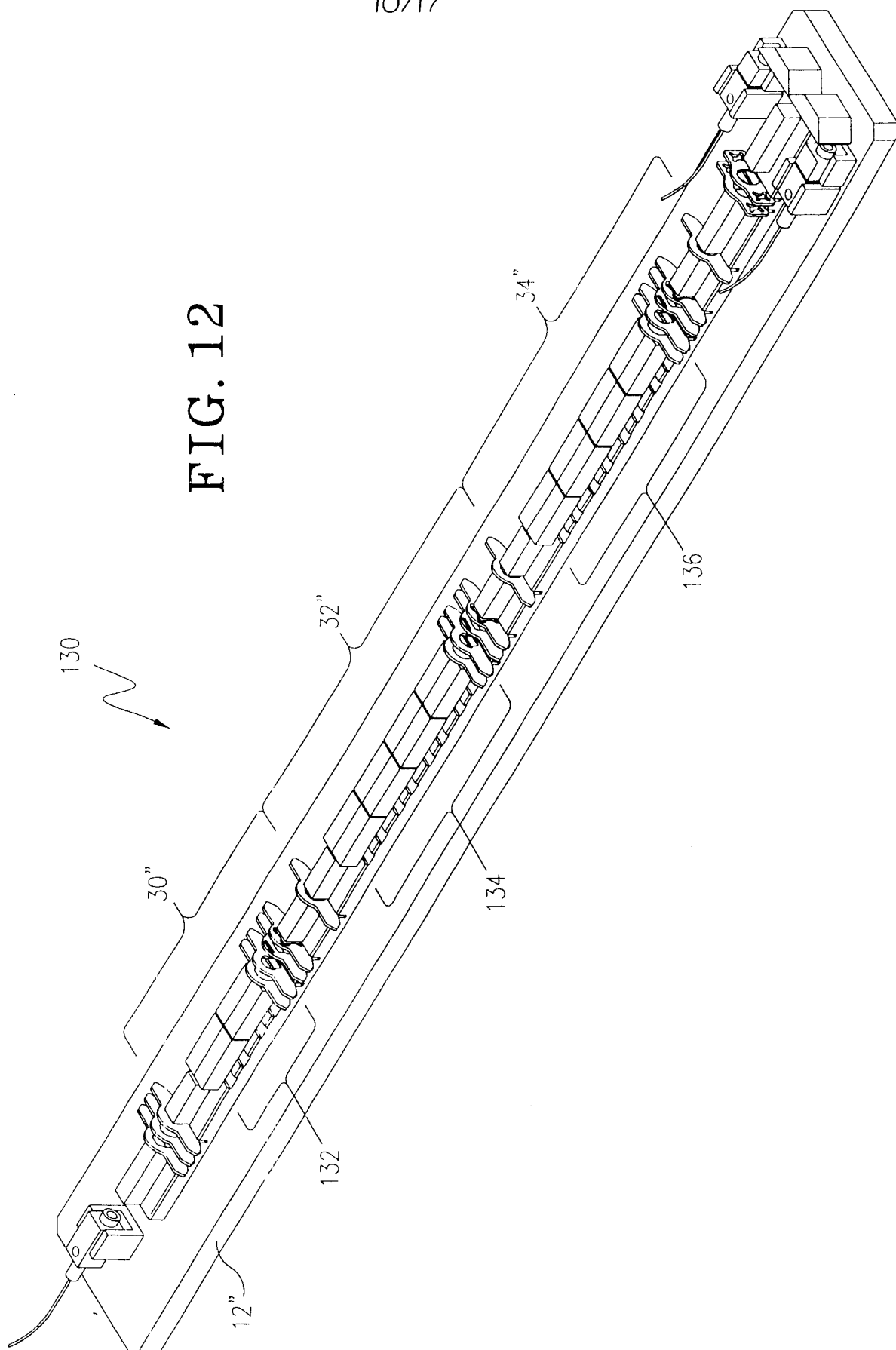
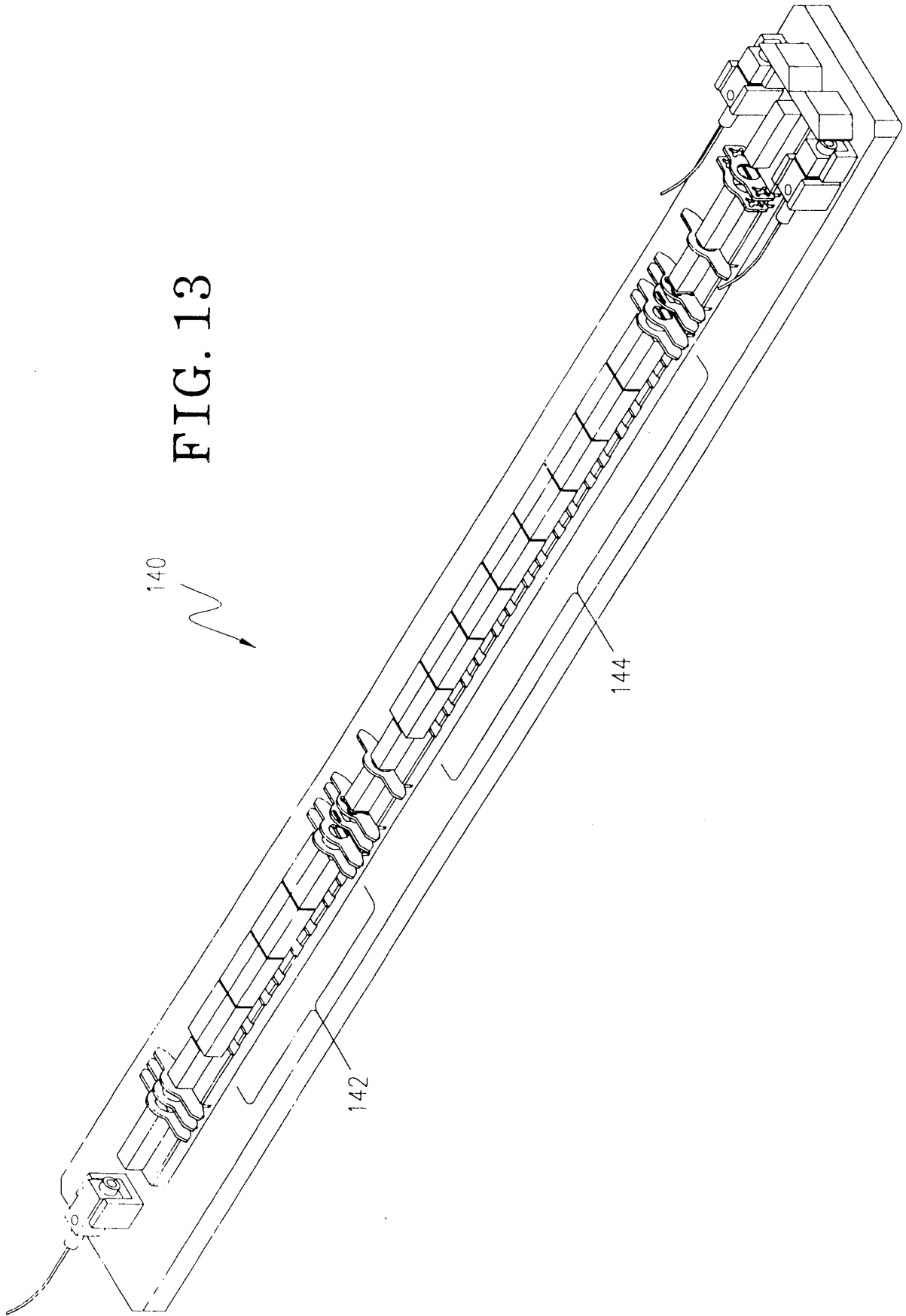


FIG. 13



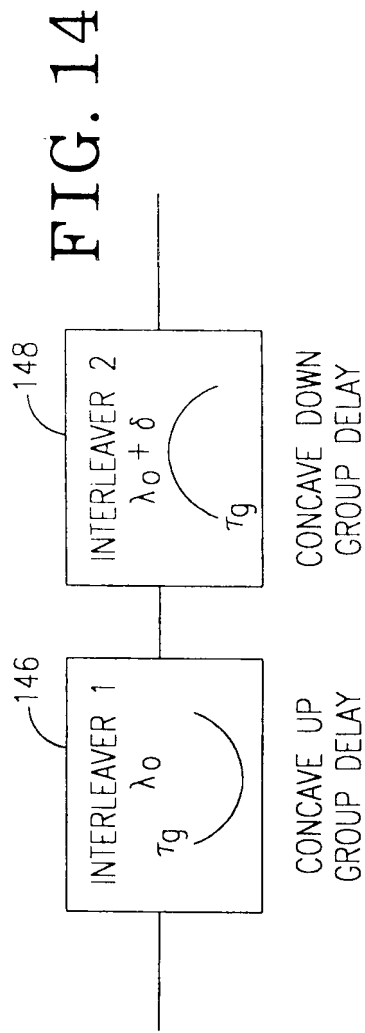
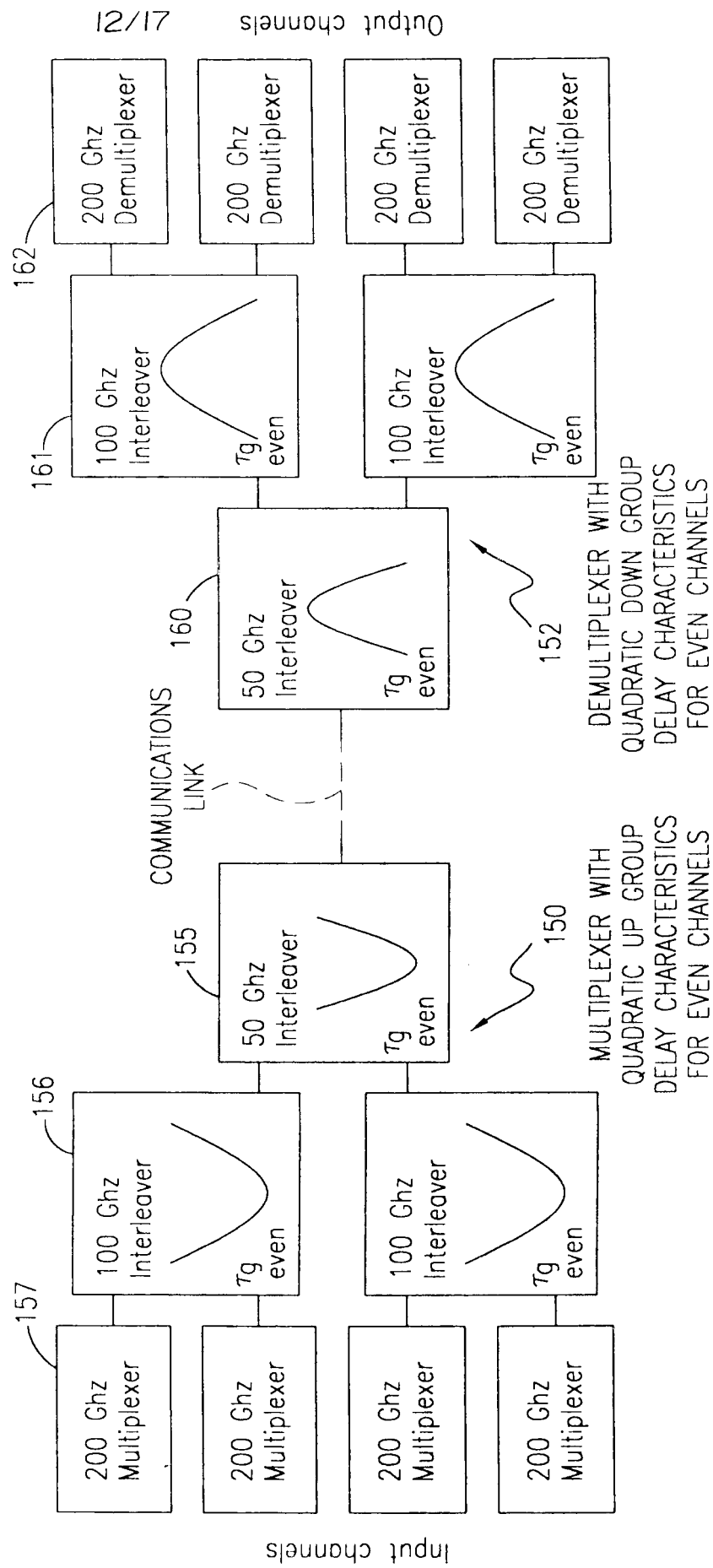


FIG. 15



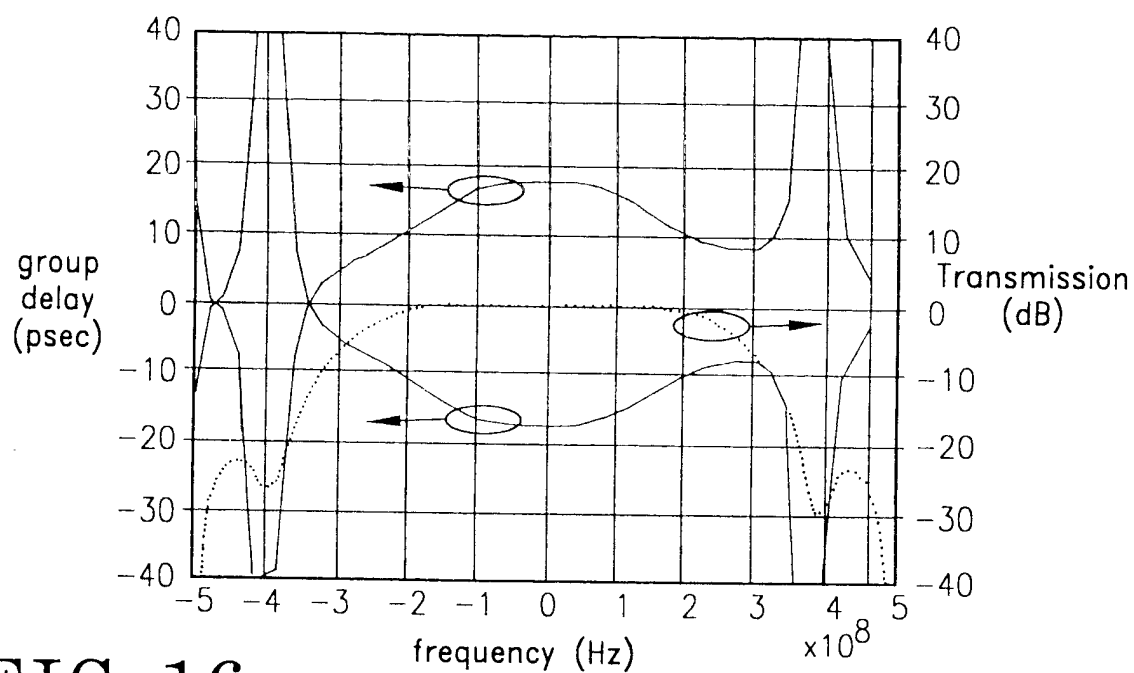


FIG. 16

Calculated group delay for even and odd wavelength channels.

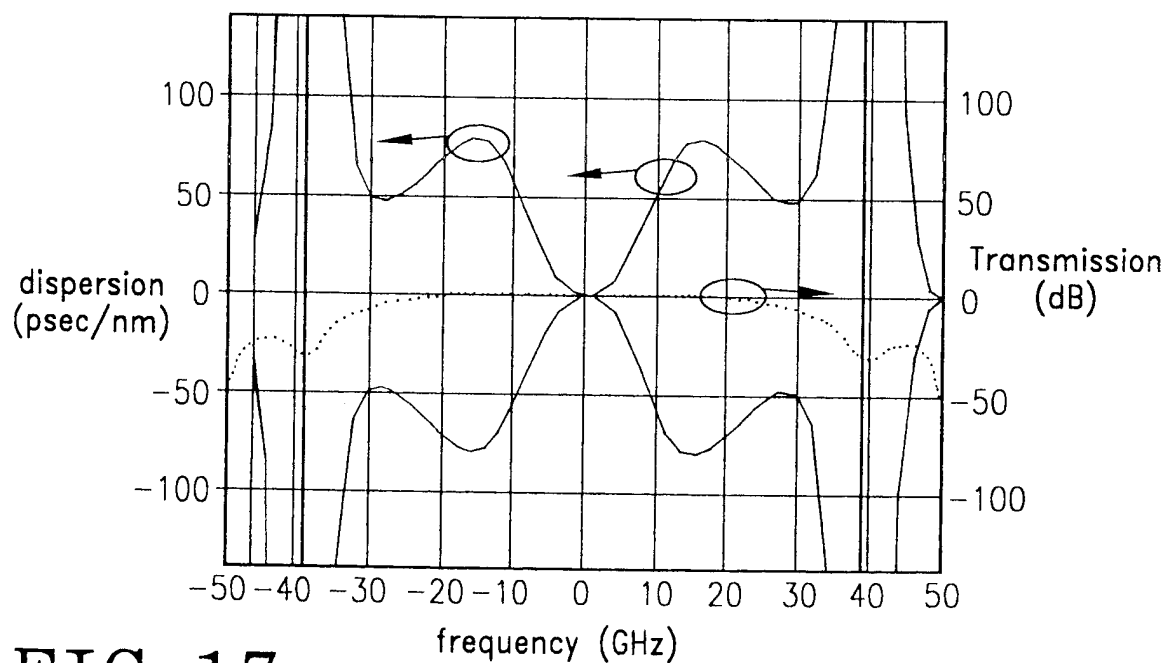
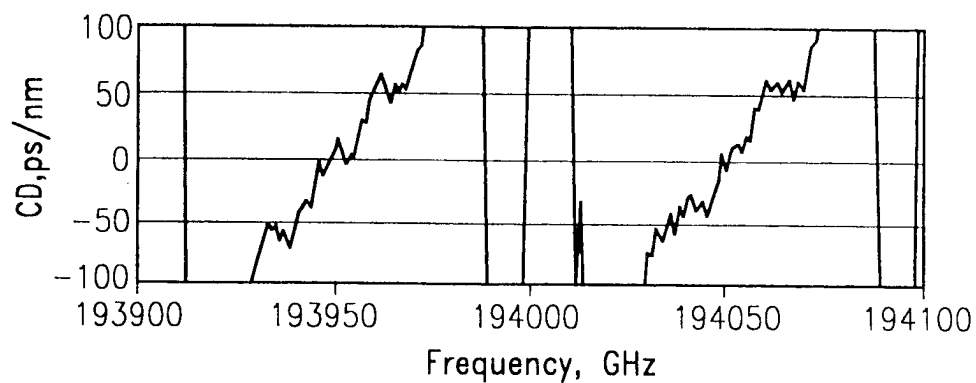


FIG. 17

Calculated chromatic dispersion for even and odd wavelength channels.

50 GHz Interleaver Chromatic Dispersion
Type 1 Channel 2



50 GHz Interleaver Chromatic Dispersion
Type 1 Channel 1

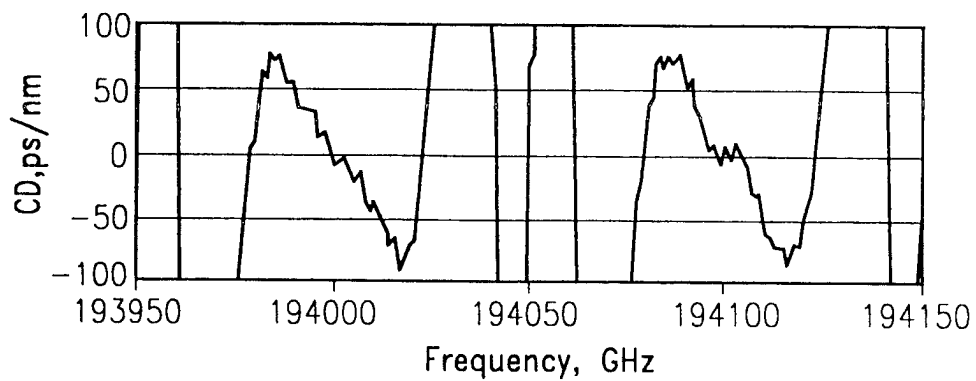
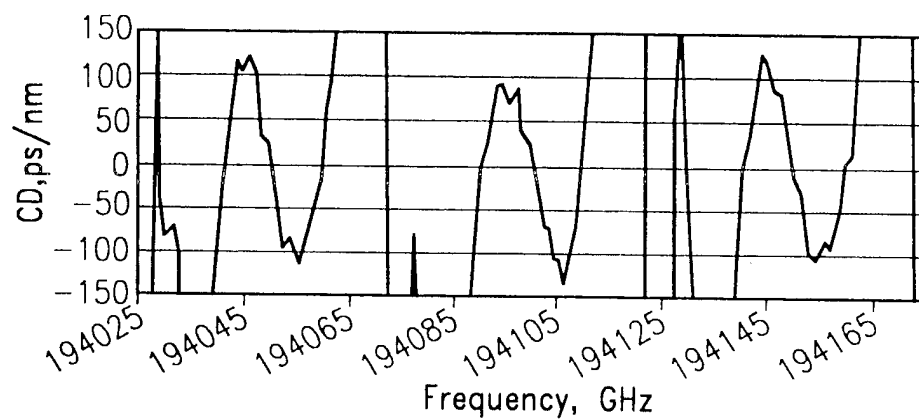


FIG. 18

CD of 50 GHz interleaver

25 GHz Interleaver Chromatic Dispersion
Type 1 Channel 1



25 GHz Interleaver Chromatic Dispersion
Type 1 Channel 2

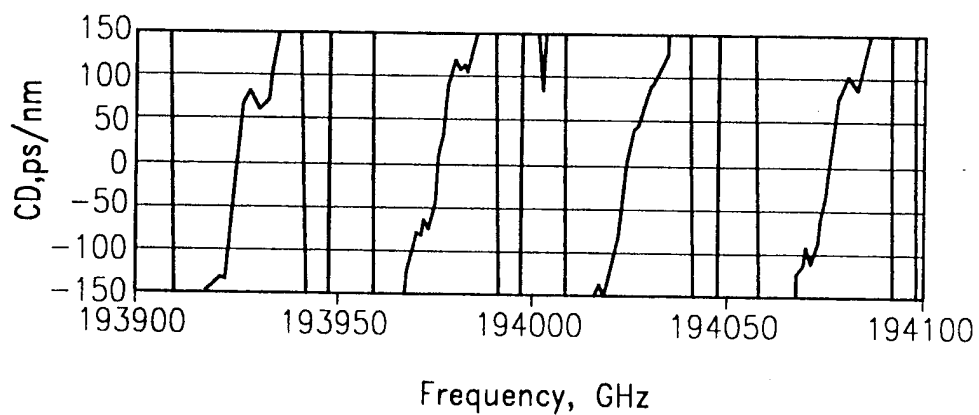


FIG. 19

CD of 25 GHz interleaver

FIG. 20

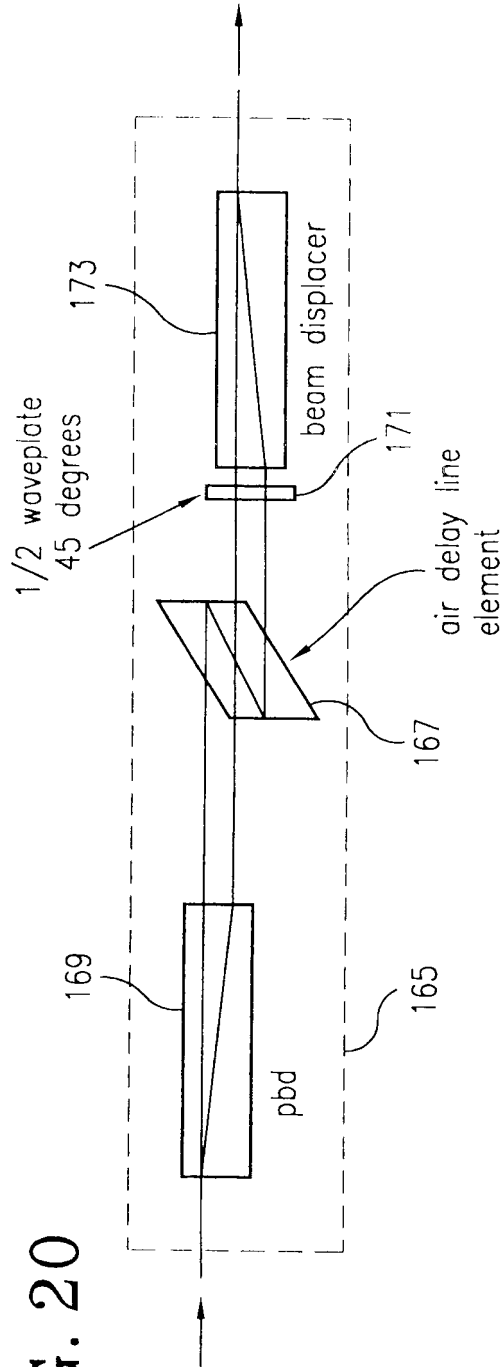


FIG. 21

